

PROCESS FOR THE PRODUCTION OF MEDICINAL WHITE OIL USING M41S AND SULFUR SORBENT

ABSTRACT

A four stage process for producing high quality white oils, particularly food or medicinal grade mineral oils from mineral oil distillates. The first reaction stage employs a sulfur resistant hydrotreating catalyst and produces a product suitable for use as a high quality lubricating oil base stock. The second reaction stage employs a hydrogenation/hydrodesulfurization catalyst. The third stage employs a reduced metal sulfur sorbent producing a product stream which is low in aromatics and which has substantially "nil" sulfur. The final reaction stage employs a selective hydrogenation catalyst that produces a product suitable as a food or medicinal grade white oil.

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